

ABSTRACT

A selective noise canceling device is disclosed that evaluates an external audio signal and determines whether a given external audio signal should be suppressed or reproduced. A selective noise suppression circuit processes the external audio signal to classify the external audio signal as noise to be suppressed or as a desired audio signal to be reproduced. An external audio signal, or a desired portion thereof, is reproduced if a portion of the external audio signal is likely to be of interest to the user. The desired external signal may optionally be amplified over the primary selected audio signal for emphasis and the selected audio signal may optionally be suppressed entirely when the desired external signal is reproduced.

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